CLAIMS

1. A molten metal discharging device between a first upper container (1) and a second container placed below the first container wherein said first container comprises a ring shaped blade (15), fixed to the base of the first container around a molten metal discharging aperture (20), a nozzle (19), inserted into said aperture with the lower end protruding from it and in which said second container (2) comprises an outlet sleeve (5) the lower end of which is suitable for being coupled with said lower end of the nozzle (19), elastic means (9, 10, 11, 12) adapted to push said outlet sleeve upwards, a cylindrical sheath (3) surrounding said outlet sleeve (5) and said elastic means, means (17) of sealing gas between said sheath (3) and said ring shaped blade (15).
2. The device according to claim 1 wherein in the operating position of coupling between said first and second containers, said sheath (3) and said ring shaped blade (15) delimit a ring shaped gas tight chamber (25).
3. The device according to claim 2 wherein there are provided means (21) for supplying gas to the interior of said ring shaped chamber.
4. The device according to claim 1 wherein said nozzle (19) and said outlet sleeve (5) are of refractory material.
5. The device according to claim 1 wherein said blade (15) and said sheath (3) are coaxial with said outlet sleeve (5).
6. The device according to any of the preceding claims wherein said elastic means (9, 10, 11, 12) comprise a helical spring which imposes a force in the axial direction on the outlet sleeve (5).
7. The device according to claim 6 wherein said spring (9) is coaxial with the outlet sleeve (5) and a beaker (10) is interposed between the spring itself and the outlet sleeve (5), and beaker through which the spring transmits force to the outlet sleeve (5).
8. The device according to any of the preceding claims wherein said outlet sleeve (5) penetrates inside the lower container.

9. The device according to any of the preceding claims wherein said means (17) for producing a gas seal between said sheath and said blade comprise a sand joint.

10. The device according to any preceding claim wherein the duct of said nozzle (19) has a diameter inferior to that of the duct of said outlet sleeve (5).

11. The device according to any of the preceding claims wherein said means (21) of feeling gas inside said ring shaped chamber (25) comprise a tube which crosses said blade (15) and a ring shaped distribution chamber (22).